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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,880	03/31/2004	Kyoko Egashira	60188-827	4575
7590 03/07/2006			EXAMINER	
Jack Q. Lever, Jr. McDERMOTT, WILL & EMERY 600 Thirteenth Street, N.W.			NHU, DAVID	
			· ART UNIT	PAPER NUMBER
Washington, D			2818	
			DATE MAIL ED: 03/07/2006	.

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/812,880	EGASHIRA ET AL.			
Office Action Summary	Examiner	Art Unit			
	David Nhu	2818			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory peri Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- tiod will apply and will expire SIX (6) MON stute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 17	7 February 2006.				
2a) ☐ This action is FINAL . 2b) ☒ T	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-11</u> is/are pending in the applicati	on.				
4a) Of the above claim(s) 7-11 is/are withdra					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9) The specification is objected to by the Exam	iner.				
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to	by the Examiner.			
Applicant may not request that any objection to t	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corr	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:		3 119(a)-(d) or (f).			
1. Certified copies of the priority docume		- Parking Ma			
2. Certified copies of the priority docume		• •			
 Copies of the certified copies of the p application from the International Burn 		received in this National Stage			
* See the attached detailed Office action for a l	*	received			
Occ the attached detailed Office action for a r	not of the continue copies not				
	Ž	mon 2			
Attachment(s)	л <u>Г</u>	Numerous (DTO 442)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	Summary (PTO-413) s)/Mail Date			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date <u>02</u>. 	08) 5) Notice of II	nformal Patent Application (PTO-152) —·			

DETAILED ACTIONS

Election/Restrictions

1. Applicant's election of Group I (Claims 1-6) is acknowledge. Claims 1-6 are remained for examination. Accordingly, claims 7-11 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 3. Claims 1-6 are rejected under 35 U.S.C. 102 (b) as being anticipated by Background of Invention (BOI) and Adam (6,175,131 B1).

Regarding claim 1, BOI, (see figures 10, 11, pages 1-3), teaches a semiconductor device comprising; an interconnect 201 made of a first conductive film and a second conductive film that are stacked in sequence from the interconnect underside on an insulating film 204 formed on a substrate (see figure 10); a capacitor composed of a lower capacitor electrode 201 made of the first conductive film, a dielectric film 202 formed on the lower capacitor electrode, and an upper capacitor electrode made of the second conductive film and formed on the dielectric film (see figure 10).

Regarding claim 1, Adam, (see figures 1, 3, col. 5, lines 55-67, col. 6, lines 1-21, col. 7, lines 45-67, col. 8, lines 1-140), teaches a semiconductor device comprising; an interconnect 14 made of a first conductive film 8 and a second conductive film 12 that are stacked in sequence

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from the interconnect underside on an insulating film 9 formed on a substrate1; a capacitor composed of a lower capacitor electrode C1 made of the first conductive film, a dielectric film formed on the lower capacitor electrode, and an upper capacitor electrode C2 made of the second conductive film and formed on the dielectric (see figure 3)

Regarding claim 2, BOI, (see figure 10, 11, pages 1-3), teaches a semiconductor device comprising; an interconnect 201 made of a first conductive film and a second conductive film that are stacked in sequence from the interconnect underside on an insulating film 204 formed on a substrate (see figure 10); a capacitor composed of a lower capacitor electrode 201 made of the first conductive film, a dielectric film 202 formed on the lower capacitor electrode, and an upper capacitor electrode made of the second conductive film and formed on the dielectric film (see figure 10); an extension interconnect (between 206a and 206b) made of the first conductive film connected to the interconnect made of the first and second conductive films stack (see figure 10).

Regarding claim 3, BOI, (see figures 11, pages 1-3), teaches a semiconductor device comprising; an interconnect 201 made of a first conductive film and a second conductive film that are stacked in sequence from the interconnect underside on an insulating film 204 formed on a substrate (see figure 10); a resistor 302 made of the first conductive film and formed on the insulating film 301 (see figure 11).

Regarding claim 4, BOI, (see figures 10, 11, pages 1-3), teaches a semiconductor device comprising; an interconnect 201 made of a first conductive film and a second conductive film that are stacked in sequence from the interconnect underside on an insulating film 204 formed on a substrate (see figure 10); a capacitor composed of a lower capacitor electrode 201 made

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of the first conductive film, a dielectric film 202 formed on the lower capacitor electrode, and an upper capacitor electrode made of the second conductive film and formed on the dielectric film (see figure 10); a resistor 302 made of the first conductive film and formed on the insulating film 301 (see figure 11).

Regarding claims 5,6, Adam, (see col. 4, lines 1-38), teaches the first and second conductive films made of metal nitride and aluminum.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Chen'442, Zurcher'724, Ng'918, Zurcher'092, Lachner'935 are cited as of interest.
- 5. A shortened statutory period for response to this action is set to expired 3 (three) months and 0 (zero) day from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see 710.02 (b)).
- 6. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

Said 1

David Nhu

March 2, 2006